

MATERIAL SAFETY DATA SHEET

Description: SAF DRAIN

Revision Number: 01

Document Number: MSDS D015



GRANULAR, ALKALINE DRAIN CLEANER

GENERAL

SAF-DRAIN is a powerful alkaline drain cleaner designed so that the product reaches the problem area before the reaction takes place. It effectively cleans organic blockages such as fat, grease and sludge.

FORMULATION

SAF-DRAIN contains a blend of alkali salts and specially selected metal particles.

PRODUCT DESCRIPTION

TEST	UNIT	SPECIFICATIONS
Appearance		Dry powder/beads with silver specks
pH (1%)	-	12.4 – 13.4

PROPERTIES

- Retarded reaction – special formula allows product to reach problem area before reaction takes place.
- Double action – removes organic blockages by gas evolution and heat generation.
- Product remains active for a long period in the presence of water.
- Retarded reaction and powder based formulation makes the product less dangerous than traditional acid based drain cleaners.

APPLICATION

- Remove as much water as possible from the drain.

Prepared by: Sabelo Dladla

Approved by: Doug Cutter

Reviewed by: Zanele Mthimunye

Revision Date: 22 March 2017

Status: Issued

Issue Date: 22 March 2017

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET

Description: SAF DRAIN

Revision Number: 01

Document Number: MSDS D015



- Add ½ to 1 kg SAF-DRAIN (2 – 4 scoops) into the system and allow the reaction to be completed.
- If no water is present, pour a small amount into the drain to activate the reaction and to carry the product to the problem area.
- Once the reaction stops, flush the drain well with water.

WARNING:

- This product is dangerous to handle. Avoid skin contact – wear goggles and protective gloves.
- Do not use in conjunction with acids.
- This product generates a large amount of heat on dilution with water - care should be taken when using on plastic (PVC) piping.
- Rinse the container out well before disposing of it.
- The container must not be re-used.

THE RECOMMENDATIONS CONTAINED HERE-IN IS BASED ON LABORATORY TESTS AND INFIELD USE EXPERIENCE, AND ARE TO THE BEST OF OUR KNOWLEDGE ACCURATE. SINCE TERMS AND CONDITIONS OF ACTUAL USE ARE BEYOND OUR CONTROL, ALL RECOMMENDATIONS ARE MADE WITHOUT WARRANTY, EXPRESSED OR IMPLIED.

Prepared by: Sabelo Dladla
Reviewed by: Zanele Mthimunye
Status: Issued

Approved by: Doug Cutter
Revision Date: 22 March 2017
Issue Date: 22 March 2017

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET

Description: SAF DRAIN Revision Number: 01

Document Number: MSDS D015



Company Details

Name	S.A.F.I.C (PTY) LTD	Tel:	+27 11 406 4000
Address	32 Steele Street, Steeledale	Fax:	+27 11 406 4252
Postal Address	PO BOX 1754, Alberton North, 1450	e-mail:	technical@safic.co.za

1. Product Identification

Trade Name	SAF – DRAIN	Product Code:	D015
Chemical Family	Strong base or alkaline		
Chemical Name	Formulated chemical		
Product Use	Drain cleaner		
UN Number	1823		

2. Composition

CAS No.	Hazardous Components	Approximate %	OSHA PEL
1310-73-2	Sodium Hydroxide	>80	CL 2 mg/m ³

3. Hazards Identification

Main hazard	Highly Corrosive Material
Fire	Non flammable
Inhalation	Irritant, burning on nose and throat, avoid breathing dust. Corrosive powder
Skin contact	Itching, painful sensation, avoid contact with any tissue., Corrosive powder
Eye contact	Burning, watering, possible serious damage to eyes, avoid contact with eyes. Corrosive powder
Ingestion	Burning of mouth and throat.

4. First Aid Measures

Inhalation	Remove patient to fresh air, suitable mask should be utilised.
Skin contact	Rinse affected area with plenty water; apply hand cream to replenish moisture.
Eye contact	Flush with running water for at least 15 min, irrigate eyes thoroughly while lifting eyelids and rolling eyeballs. Seek medical attention immediately.
Ingestion	Rinse mouth with water, allow patient as much water as possible. Seek medical attention immediately.

5. Fire Fighting Measures

Product is non flammable, use suitable extinguishing agents to surrounding area.	
Special hazard	Reacts violently with water at larger quantities and produces heat enough to ignite combustible materials.

6. Accidental Release Measures

Personal precautions	The material is highly corrosive, avoids contact with any tissue, and may cause blindness in contact with eye.
----------------------	--

Prepared by: Sabelo Dladla
Reviewed by: Zanele Mthimunye
Status: Issued

Approved by: Doug Cutter
Revision Date: 22 March 2017
Issue Date: 22 March 2017

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET

Description: SAF DRAIN Revision Number: 01

Document Number: MSDS D015



Environmental precaution	High pH can be fatal to aquatic organisms, avoid release to storm water drains.
Small spills	Contain flakes or powder and flush residue with plenty water
Large spills	Prevent the discharge of large quantities of product into sewerage and watercourses as the product is highly alkaline.
General	Large quantities may result in increase in pH of water in sewerage and watercourses which is fatal to aquatic life.

7. Handling & Storage

Handling	Normal handling procedure for CORROSIVE materials to minimise personal exposure.
Storage	Store in a cool dry place. Keep container closed at all times.

8. Exposure Controls/Personal Protection

Workers should have access to an eye wash fountain.
This material is highly CORROSIVE to eyes, safety goggles (VNC11 supplier – MSA) should be utilised.
Neoprene gloves (Technic 420-supplier MSA) should be utilised.
Work in a well-ventilated area or 6300 type mask/6059 cartridge/N95 pre-filter (3M – supplier) should be utilised where ventilation isn't adequate.

9. Physical and Chemical Properties

Appearance	Dry powder, beads with silver specks
pH	12.4 - 13.4
Solubility (water)	Highly exothermic reaction. (Produces heat on contact with water.)

10. Stability and Reactivity

Stability	Stable under normal conditions.
Conditions to avoid	Strong acids (explosive reactions on contact).
Hazardous decomposition products	None Known. Avoid breathing of caustic fumes.

11. Toxicological Information (based on caustic soda)

Toxicity	Acute oral : LD50 : 400 mg/kg, rat
	Acute dermal : LD50: 500 mg/24 H SEV, rabbit
Carcinogenicity	No evidence of carcinogenic properties.
Mutagenicity	No evidence of mutagenic effects.
Teratogenicity	No evidence of teratogenic effects.

12. Ecological Information (based on caustic soda)

Acute toxicity – fish	The product is toxic to aquatic environment.
-----------------------	--

Prepared by: Sabelo Dladla	Approved by: Doug Cutter
Reviewed by: Zanele Mthimunye	Revision Date: 22 March 2017
Status: Issued	Issue Date: 22 March 2017

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET



Description: SAF DRAIN **Revision Number:** 01

Document Number: MSDS D015

Acute toxicity - daphnia	The product is toxic to aquatic environment.
Acute toxicity – algae	The product is toxic to plants and other living organisms.
Biodegradability	No data available at present moment.
Bioaccumulation	No data available at present moment.

13. Disposal Considerations

Dilute product 1000 times when disposing small quantities and run to waste. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options	
Permissible under applicable rules, regulations, and/or laws governing your location.	
Disposal of packaging	Dispose packaging as hazardous waste or wash thoroughly and dispose responsibly.

14. Transport Information

UN No	1823
Substance identity no	D015
ADR/RID class	Class 8, Corrosive
IMDG – packaging group	II
Marine Pollutant	No
IMO/IMDG Classification	Class 8, Corrosive
IATA Classification	Class 8, Corrosive

15. Regulatory Information

EC Classification	Corrosive (C)
Risk phrases	R21,22 R34,35,36/38 R52
Safety phrases	R7,8 R22/24/25 R37 R62

16. Other Information

References : SABS 0265 : 1999, SABS 0228:1995, SABS ISO 11014-1: 1994, M.S.D.S.(Suppliers of raw's)
Issued by: Sabelo Dladla
EMERGENCY NUMBERS: 011 406 4000 / 082 412 2298

The information in this MSDS is based on current knowledge and experience at the date of publication. This MSDS summarises our best knowledge of the health and safety hazard information of the product regarding the precautionary handling, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification of the product. The data relates only to the specific product designated, and does not relate to use of the product in combination with any other

Prepared by: Sabelo Dladla	Approved by: Doug Cutter
Reviewed by: Zanele Mthimunye	Revision Date: 22 March 2017
Status: Issued	Issue Date: 22 March 2017

It is the responsibility of the user to verify that this copy is the latest version.

MATERIAL SAFETY DATA SHEET



Description: SAF DRAIN	Revision Number: 01
Document Number: MSDS D015	

material or use of the product in any process. The data is not intended to constitute performance information concerning the product. No express warranty or implied warranty of merchantability for fitness for a particular purpose is made with respect to the product and/or its composition.

APPENDIX A

Revision Date (dd/mm/yy)	Issued By	Revision History		Revision No.
		Description	DCN No.	
20/05/2013	Technical Manager	New Issue	MSDS D015	00
22/03/2017	Operations Director	Document Revised	MSDS D015	01

CONTROLLED DOCUMENT

Prepared by: Sabelo Dladla	Approved by: Doug Cutter
Reviewed by: Zanele Mthimunye	Revision Date: 22 March 2017
Status: Issued	Issue Date: 22 March 2017

It is the responsibility of the user to verify that this copy is the latest version.